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Digital Repository @ Iowa State University fiscal year 2014 annual report

Harrison W. Inefuku

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Digital Repository @ Iowa State University fiscal year 2014 annual report

Abstract

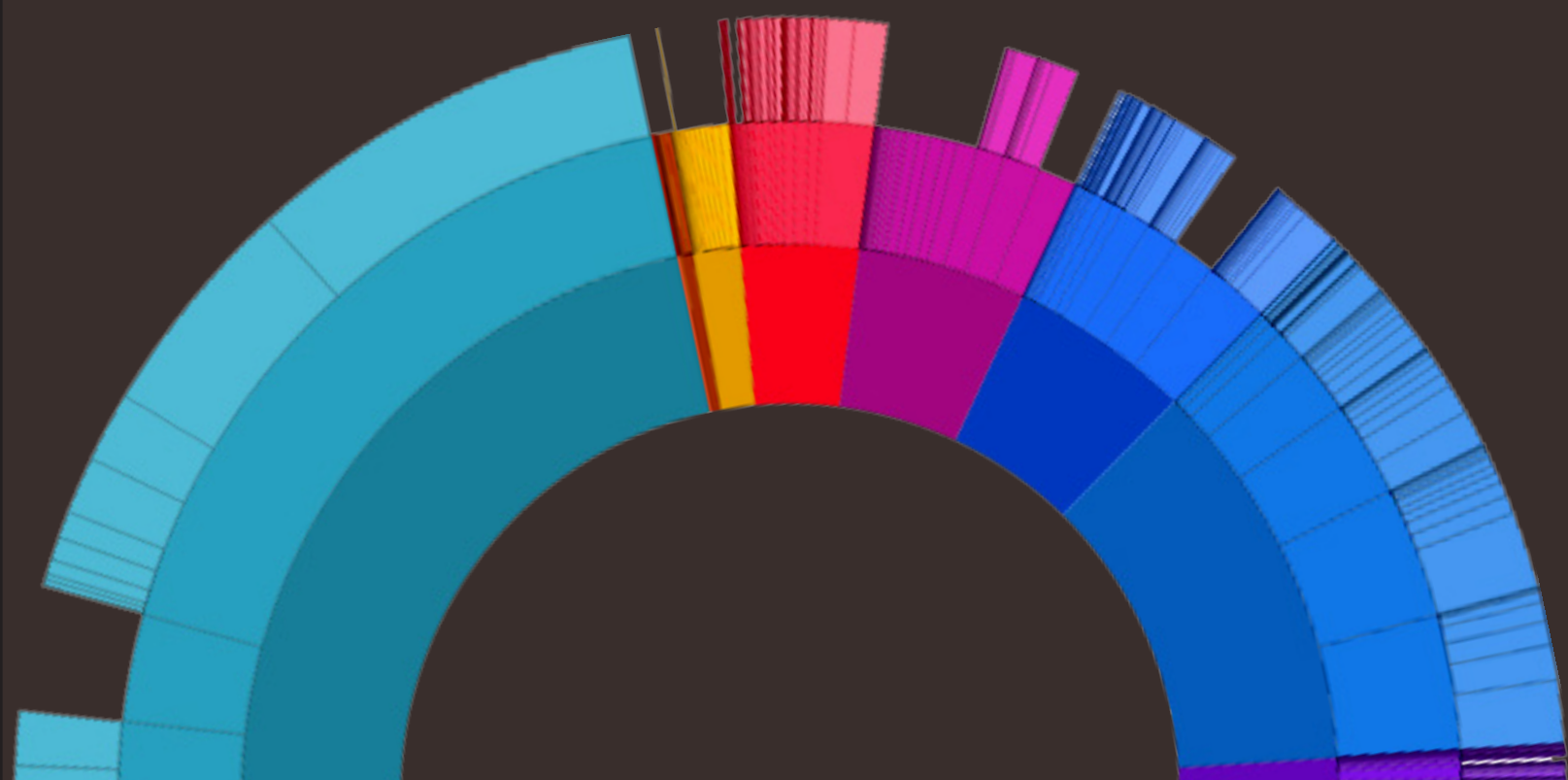
This annual report highlights the growth and usage of Digital Repository @ Iowa State University, Iowa State's institutional repository, between July 1, 2013 and June 30, 2014.

Keywords

Institutional repositories, Iowa State University, Digital Repository @ Iowa State University

Disciplines

Scholarly Communication | Scholarly Publishing



DIGITALrepository

Fiscal Year 2014 Annual Report

IOWA STATE
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Agricultural and Biosystems Engineering

SelectedWorks Sites



Jay D. Harmon
Livestock production systems
Air quality



Matthew J. Darr
Advanced Sensing and Control Systems
Cellulosic Biomass
Feedstock



Chenxu Yu

[Home](#) > [CoE](#) > [ABE](#)

AGRICULTURAL AND BIOSYSTEMS ENGINEERING



Advanced Machinery Engineering and Manufacturing Systems

The Advanced Machinery Engineering and Manufacturing Systems group is dedicated to engineering new technologies and systems which enhance the productivity, efficiency, and performance of advanced machinery and manufacturing systems.

[Visit site](#)



Department Chair: Steven K. Mickelson

Since 1905, the Department of Agricultural Engineering, now the Department of Agricultural and Biosystems Engineering (ABE), has been a leader in providing engineering solutions to agricultural problems in the United States and the world. The department's original mission was to mechanize agriculture. That mission has evolved to encompass a global view of the entire food production system—the wise management of natural resources in the production, processing, storage, handling, and use of food fiber and other biological products.

History

In 1905 Agricultural Engineering was recognized as a subdivision of the Department of Agronomy, and in 1907 it was recognized as a unique department. It was renamed the Department of Agricultural and Biosystems Engineering in 1990. The department merged with the Department of Industrial Education and Technology in 2004.

Dates of Existence

1905–present

Historical Names

- Department of Agricultural Engineering (1907–1990)

Related Units

Cover: Digital Repository @ Iowa State University's discipline wheel, showing the breakdown of repository content in ten disciplines: Architecture, Arts and Humanities, Business, Education, Engineering, Law, Life Sciences, Medicine and Health Sciences, Physical Sciences and Mathematics, and Social and Behavioral Sciences. It can be viewed on the repository's homepage (<http://lib.dr.iastate.edu>)

Above: The repository site for the Department of Agricultural and Biosystems Engineering. Faculty, staff and students have contributed almost 2,000 items to the repository, including journal articles, book chapter, theses and dissertations, patents, conference proceedings and extension and outreach publications (http://lib.dr.iastate.edu/abe_eng).

DIGITALrepository Iowa State University fiscal year 2014 annual report

Harrison W. Inefuku
Digital Repository Coordinator
Iowa State University Library

October 2014

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Reader from:  Quiapo, Quezon, Philippines

Publication: Graduate Theses and Dissertations

Title: Outcomes of student participation in classes in southern California comm



increasing **IMPACT**

DIGITAL REPOSITORY @ IOWA STATE UNIVERSITY (<http://lib.dr.iastate.edu>) increases the visibility and impact of research and scholarship by Iowa State's faculty, students and staff. By providing free, public access to journal articles and manuscripts, conference proceedings and presentations, graduate theses and dissertations, technical reports and white papers, patents and other forms of scholarship, we support Iowa State University's land-grant mission by sharing the knowledge generated on campus with the citizens of Iowa, the United States and the world.

As of June 30, 2014, Digital Repository @ Iowa State University:

- held 14,673 items;
- received 1,731,638 downloads for an average of 123 downloads per item; and
- used 66,560 MB of storage space.

Reaching across campus

In its second year of operation, Digital Repository @ Iowa State University continued to grow, engaging faculty, students and staff in all seven of Iowa State University's colleges, Extension and Outreach, Ames Laboratory, the Center for Nondestructive Evaluation and the Institute for Transportation. In fiscal year 2014, we received first-time contributions from 129 faculty, students and staff. The Department of Chemical and Biological Engineering became the first department on campus with 100% faculty participation.

The repository now includes submissions from faculty in each of Iowa State's colleges. In addition to Chemical and Biological Engineering, other departments with high levels of faculty participation include the Departments of Agriculture and Biosystems Engineering; Apparel, Events and Hospitality Management; Architecture; Civil, Construction and Environmental Engineering; Entomology; Food Science and Human Nutrition; Human Development and Family Studies; Kinesiology; Mechanical Engineering; and the University Library.

Through the broad participation by Iowa State's faculty, combined with the regular addition of graduate theses and dissertations and historical Iowa State scholarship from our Special Collections Department, we have added 6,030 new items during fiscal year 2014, an average of 502.5 a month. The average Digital Commons-based repository for universities with a Carnegie classification of Research Universities—very high research activity (RU/VH) is 223 new items per month.¹

Through our efforts, Digital Repository @ Iowa State University increases the visibility of research and scholarship from each of Iowa State's academic departments and research centers and institutes. This is evident in the readership of our theses and dissertations.

The 100 most downloaded theses and dissertations represent 31 departments from six colleges across campus. Each of these theses have been downloaded at least 1,700 times, with the top thesis downloaded over 13,000 times. The representation of colleges and departments in the top 100 theses and dissertations is as follows:

| Number of Theses | College |
|--|-------------------------------|
| 32 | Human Sciences |
| 28 | Liberal Arts and Sciences |
| 27 | Engineering |
| 16 | Agriculture and Life Sciences |
| 6 | Design |
| 2 | Business |
| Because some departments are administered by two colleges, the total does not equal 100. | |

| Number of Theses | Department |
|--|---|
| 14 | Apparel, Events and Hospitality Management |
| 8 | English |
| 7 | Civil, Construction and Environmental Engineering |
| 6 | Mechanical Engineering |
| 5 | Art and Design ¹ ; Food Science and Human Nutrition |
| 4 | Chemistry; Curriculum and Instruction ² ; Human Development and Family Studies |
| 3 | Chemical and Biological Engineering; Educational Leadership and Policy Studies ² ; Electrical and Computer Engineering; Greenlee School of Journalism and Communication; Sociology |
| 2 | Aerospace Engineering; Agricultural and Biosystems Engineering; Animal Science; Business; Economics; History; Industrial and Manufacturing Systems Engineering; Kinesiology; Materials Science and Engineering; Political Science |
| 1 | Agronomy; Anthropology; Architecture; Computer Science; Geological and Atmospheric Science; Horticulture; Physics and Astronomy |
| ¹ The Department of Art and Design was split into the Departments of Graphic Design, Industrial Arts, Integrated Studio Arts and Interior Design in 2012. | |
| ² The Departments of Curriculum and Instruction and Educational Leadership and Policy Studies were merged to form the School of Education in 2012. | |

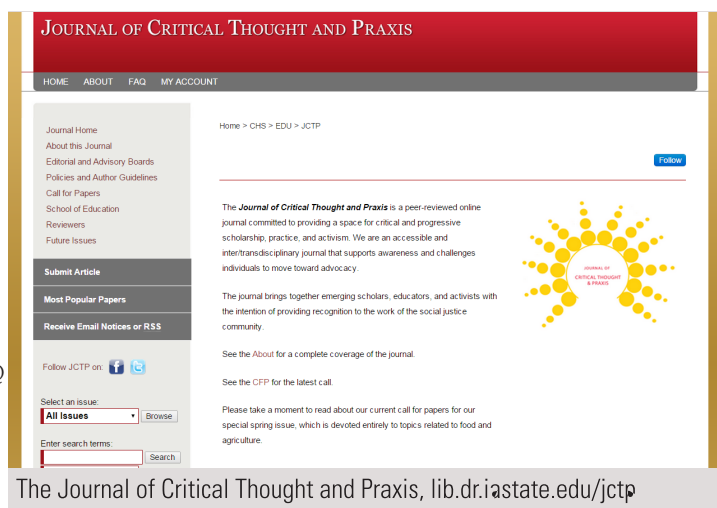
For more information about our participants and growth, please see Appendices A and B. For information about our readership, please see Appendices C and D.

A new publishing venue

Digital Repository @ Iowa State University is a powerful publishing platform, with built-in peer review systems to support journals and conferences. In FY2014, we began to explore Digital Repository @ Iowa State University's potential to serve as an original publishing venue for the Iowa State community.

We launched our first journal, the *Journal of Critical Thought and Praxis* (JCTP, <http://lib.dr.iastate.edu/jctp>). JCTP is a graduate student-run journal based in the School of Education. It is the first journal to be published through our repository's built-in peer review system, enabling the journal's editorial board to easily manage everything from article submission through publication.

We also worked with Dr. Leonard Bond, Director of the Center for Nondestructive Evaluation, to negotiate rights with Springer to make the first 18 volumes of the *Proceedings of the Review of Progress in Quantitative Nondestructive Evaluation* (<http://lib.dr.iastate.edu/qnde/>) available through the repository. Whereas they were previously only available for \$30 through the Springer Book Archive, they are now freely available through Digital Repository @ Iowa State University, as well.



At the close of fiscal year 2014, repository staff were in the process of adding materials from the following conferences to the repository:

- Distillers Grains Technology Council's Annual Distillers Grains Symposium
- International Conference on the Epidemiology and Control of Biological, Chemical and Physical Hazards in Pigs and Pork
- Iowa State University Symposium on Undergraduate Research and Creative Expression

Moving forward

Increasing the staffing of Digital Repository unit was identified as an action item by the President's Committee on Enhancing Institutional Excellence. We've made progress towards this goal, adding two new staff members to the Digital Repository Unit—Susan Knippel, *Systems Support Specialist*, joined the repository from the Library's Information Technology Division, and Lorrie Smith, *Library Assistant*, transferred in from the Library's Access Services Department. The Digital Repository unit will add two additional staff members in fiscal year 2015.

In conjunction with the Library's Access Services, Cataloging and Metadata, and Preservation Departments, we are working to make Iowa State's historical theses and dissertations freely available through the repository. Fiscal year 2015 will see ~15,000 dissertations authored by Iowa State's doctoral students between 1916–2006 added to the repository.

As we enter our third year of operation, we look forward to continuing serving the Iowa State University community.

For more information

For more information on increasing the impact of research and scholarship through Digital Repository @ Iowa State University, please contact:

Harrison W. Inefuku, *Digital Repository Coordinator*
 204 Parks Library
 515 294-3180
hinefuku@iastate.edu


¹ Ellen Dubinsky, "A current snapshot of institutional repositories: growth rate, disciplinary content and faculty contributions," *Journal of Librarianship and Scholarly Communication* 2 (2014): eP1167, doi: 10.7710/2162-3309.1167.

SelectedWorks of Pamela J. White


[Author Home](#)[Browse Subjects](#)[Browse Article Types](#)[Series Home](#)

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Articles

-  **PDF** **In Vitro Digestion Rate and Estimated Glycemic Index of Oat Flours from Typical and High β -Glucan Oat Lines** (with Hyun Jung Kim), *Journal of Agricultural and Food Chemistry* (2013)


The in vitro starch digestion rate and estimated glycemic index (GI) of oat flours and...

-  **PDF** **Genome-wide association study for oat (*Avena sativa* L.) beta-glucan concentration using germplasm of worldwide origin** (with Mark A. Newell, Franco G. Asoro, M. Paul Scott, William D. Beavis, and Jean-Luc Jannink), *Theoretical and Applied Genetics* (2012)


Detection of quantitative trait loci (QTL) controlling complex traits followed by selection has become a...

-  **PDF** **Interactional Effects of β -Glucan, Starch, and Protein in Heated Oat Slurries on Viscosity and In Vitro Bile Acid Binding** (with Hyun Jung Kim), *Journal of Agricultural and Food Chemistry* (2012)


Three major oat components, β -glucan, starch, and protein, and their interactions were evaluated for the...

-  **PDF** **Optimizing the Molecular Weight of Oat β -Glucan for in Vitro Bile Acid Binding and Fermentation** (with Hyun Jung Kim), *Journal of Agricultural and Food Chemistry* (2011)


A previous study showed β -glucan with low molecular weight (MW, 1.56×10^5 g/mol) bound...

-  **PDF** **Individual and Interactional Effects of β -Glucan, Starch, and Protein on Pasting Properties of Oat Flours** (with Yanjun Liu and Theodore B. Bailey), *Journal of Agricultural and Food Chemistry* (2010)

Seven experimental oat lines with high (6.2–7.2%), medium (5.5–5.9%), and low (4.4–5.3%) β -glucan concentrations were...

-  **PDF** **In Vitro Bile-Acid Binding and Fermentation of High, Medium, and Low Molecular Weight β -Glucan** (with Hyun Jung Kim), *Journal of Agricultural and Food Chemistry* (2010)

The impact of β -glucan molecular weight (MW) on *in vitro* bile-acid binding and *in vitro* fermentation...

-  **PDF** **In Vitro Fermentation of Oat Flours from Typical and High β -Glucan Oat Lines** (with Hyun Jung Kim), *Journal of Agricultural and Food Chemistry* (2009)

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Pamela J. White

Iowa State University

- Dean, College of Human Sciences
 - University Professor, Department of Food Science and Human Nutrition
- Contact Information

Expertise

- Oxidation of edible oils and their sensory and chemical changes
- Uses of antioxidants in oils
- Lipid-carbohydrate interaction
- Soluble fiber (beta-glucan) and starch structure and function
- Genetic variation of fatty acid and composition in corn and soybeans, of starch structure in corn and beta-glucan

APPENDICES

appendix a

PARTICIPANTS

Faculty, students and staff who have contributed to the repository by submitting a vita or publications list to the library during fiscal year 2014.

- Nadia Anderson (*Architecture*)
- Claire B. Andreasen (*Veterinary Pathology*)
- Jeramy C. Ashlock (*Civil, Construction and Environmental Engineering*)
- Daniel Attinger (*Mechanical Engineering*)
- Michael D. Bailey (*History*)
- Ganesh Balasubramanian (*Mechanical Engineering*)
- Lyric Bartholomay (*Entomology*)
- Jeffrey K. Beetham (*Veterinary Pathology*)
- Lori A. Biederman (*Ecology, Evolution and Organismal Biology*)
- Timothy Bigelow (*Electrical and Computer Engineering*)
- Sue Blodgett (*Entomology*)
- Jelena Bogdanovic (*Architecture*)
- Robert Bosselman (*Apparel, Events and Hospitality Management*)
- Kaitlin Bratlie (*Materials Science and Engineering*)
- Eric A. Brown (*Apparel, Events and Hospitality Management*)
- Rebecca Cademartiri (*Materials Science and Engineering*)
- Chiu-Shui Chan (*Architecture*)
- Jason C. K. Chan (*Psychology*)
- Senlin Chen (*Kinesiology*)
- L. Scott Chumbley (*Materials Science and Engineering*)
- Eric W. Cochran (*Chemical and Biological Engineering*)
- Kristen P. Constant (*Materials Science and Engineering*)
- Christine C. Cook (*Human Development and Family Studies*)
- John H. Dekker (*Agronomy*)
- James S. Dickson (*Animal Science*)
- Aleksandar Dogandžić, (*Electrical and Computer Engineering*)
- Jing Dong (*Civil, Construction and Environmental Engineering*)
- Pete M. Evans (*Architecture*)
- Ann Marie Fiore (*Apparel, Events and Hospitality Management*)
- Brice E. Floyd* (*Genetics, Development and Cell Biology*)
- Rodney O. Fox (*Chemical and Biological Engineering*)
- Sarah L. Francis (*Food Science and Human Nutrition*)
- Warren D. Franke (*Kinesiology*)
- Aaron J. Gassmann (*Entomology*)
- Marwan Ghandour (*Architecture*)
- Jason C. Gillette (*Kinesiology*)
- Charles E. Glatz (*Chemical and Biological Engineering*)
- Peter P. Goché (*Architecture*)
- Douglas D. Gransberg (*Civil, Construction and Environmental Engineering*)
- William R. Graves (*Horticulture*)
- Kimberly A. Greder (*Human Development and Family Studies*)
- Timothy S. Griesdorn (*Human Development and Family Studies*)
- Clinton G. Gudmunson (*Human Development and Family Studies*)
- Linda Serra Hagedorn (*Education*)
- Kurt R. Hebert (*Chemical and Biological Engineering*)
- Theodore J. Heindel (*Mechanical Engineering*)
- Jennifer Heinen (*Chemical and Biological Engineering*)
- Andrew C. Hillier (*Chemical and Biological Engineering*)
- Erin W. Hodgson (*Entomology*)
- Ken H. Holscher (*Entomology*)
- Ming-Chen Hsu (*Mechanical Engineering*)
- Qing Hu (*Business*)
- Elisabeth J. Huff-Lonergan (*Animal Science*)
- Charles R. Hurburgh (*Agricultural and Biosystems Engineering*)
- Laura Jarboe (*Chemical and Biological Engineering*)
- Danny J. Johnson (*Supply Chain and Information Systems*)
- Tera R. Jordan (*Human Development and Family Studies*)
- Russell A. Jurenka (*Entomology*)

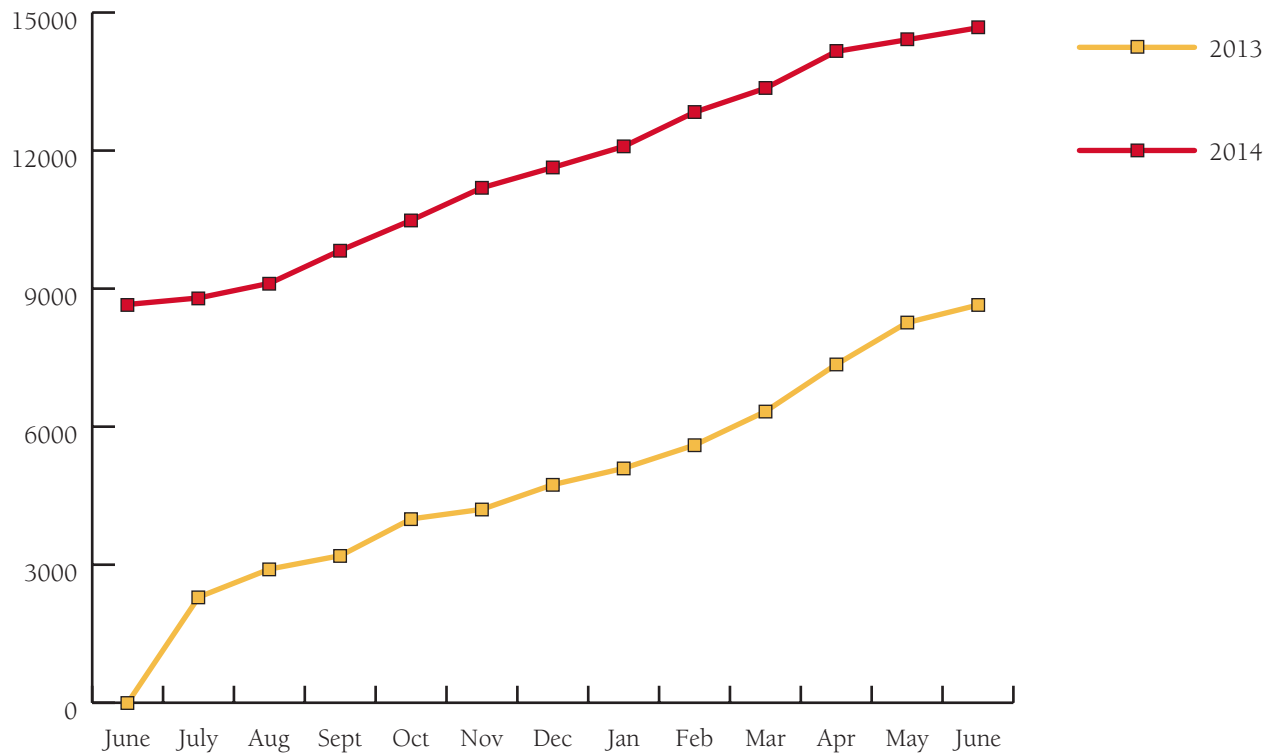
- Elena E. Karpova (*Apparel, Events and Hospitality Management*)
- Gap-Yong Kim (*Mechanical Engineering*)
- Simon Laflamme (*Civil, Construction and Environmental Engineering*)
- Monica H. Lamm (*Chemical and Biological Engineering*)
- Duck-Chul Lee (*Kinesiology*)
- Valery Levitas (*Aerospace Engineering*)
- Thomas A. Lograsso (*Ames Laboratory*)
- Steven M. Lonergan (*Animal Science*)
- Silvina Lopez Barrera (*Architecture*)
- Stephanie D. Loveland (*Chemical and Biological Engineering*)
- Surya Mallapragada (*Chemical and Biological Engineering*)
- Sara B. Marcketti (*Apparel, Events and Hospitality Management*)
- Joanne Marshall (*Education*)
- Philip Martin (*Kinesiology*)
- Steve W. Martin (*Materials Science and Engineering*)
- Rano Marupova (*Library*)
- Mickael W. Muecke (*Architecture*)
- Balaji Narasimhan (*Chemical and Biological Engineering*)
- James H. Oliver (*Mechanical Engineering*)
- Matt E. O'Neal (*Entomology*)
- Alberto Passalacqua (*Mechanical Engineering*)
- Ulrike Passe (*Architecture*)
- Carla A. Peterson (*Human Development and Family Studies*)
- David A. M. Peterson (*Political Science*)
- Sarah Rajala (*Engineering*)
- Mahdi Ramezani* (*Mechanical Engineering*)
- Mark W. Rectanus (*World Languages and Cultures*)
- Chris R. Rehmann (*Civil, Construction and Environmental Engineering*)
- Charles D. Richards (*Integrated Studio Arts*)
- Pamela Riney-Kehrberg (*History*)
- Jane M. Rongerude (*Community and Regional Planning*)
- Derrick K. Rollins (*Chemical and Biological Engineering*)
- Alan M. Russell (*Materials Science and Engineering*)
- Daniel W. Russell (*Human Development and Family Studies*)
- Michelle Shaal (*English*)
- Beate Schmittmann (*Liberal Arts and Sciences*)
- Ian C. Schneider (*Chemical and Biological Engineering*)
- Thomas J. Schofield (*Human Development and Family Studies*)
- Debra M. Sellers (*Extension and Outreach*)
- Brent H. Shanks (*Chemical and Biological Engineering*)
- Jacqueline V. Shanks (*Chemical and Biological Engineering*)
- Zengyi Shao (*Chemical and Biological Engineering*)
- Pranav Shrotriya (*Mechanical Engineering*)
- Lloyd D. Snell (*Agricultural and Biosystems Engineering*)
- Simone Soso* (*Agricultural and Biosystems Engineering*)
- James M. Spiller (*Architecture*)
- Elizabeth Stegemoller (*Kinesiology*)
- Cory K. Stiehl (*Chemical and Biological Engineering*)
- Lori Brunner Stone (*Interior Design*)
- Jonathan Sturm (*Music*)
- Shankar Subramaniam (*Mechanical Engineering*)
- Sriram Sundararajan (*Mechanical Engineering*)
- Xiaoli Tan (*Materials Science and Engineering*)
- Jean-Philippe Tessonier (*Chemical and Biological Engineering*)
- Jeritt R. Tucker* (*Psychology*)
- Johannes Van Leeuwen (*Civil, Construction and Environmental Engineering*)
- Judy M. Vance (*Mechanical Engineering*)
- John K. VanDyk (*Entomology*)
- Spyridoula Vazou (*Kinesiology*)
- R. Dennis Vigil (*Chemical and Biological Engineering*)
- Qun Wang (*Chemical and Biological Engineering*)
- Gary L. Wells (*Psychology*)
- Andrea S. Wheeler (*Architecture*)
- David J. White (*Civil, Construction and Environmental Engineering*)
- Pamela J. White (*Human Sciences*)
- Robert Whitehead (*Architecture*)
- R. Christopher Williams (*Civil, Construction and Environmental Engineering*)
- Susan Wohlsdorf-Arendy (*Apparel, Events and Hospitality Management*)
- Bambi L. Yost (*Landscape Architecture*)
- Kimberly E. Zarecor (*Architecture*)
- Song Zhang (*Mechanical Engineering*)

* indicates submitter is a graduate student

appendix b

DEPOSITS

Number of items in repository



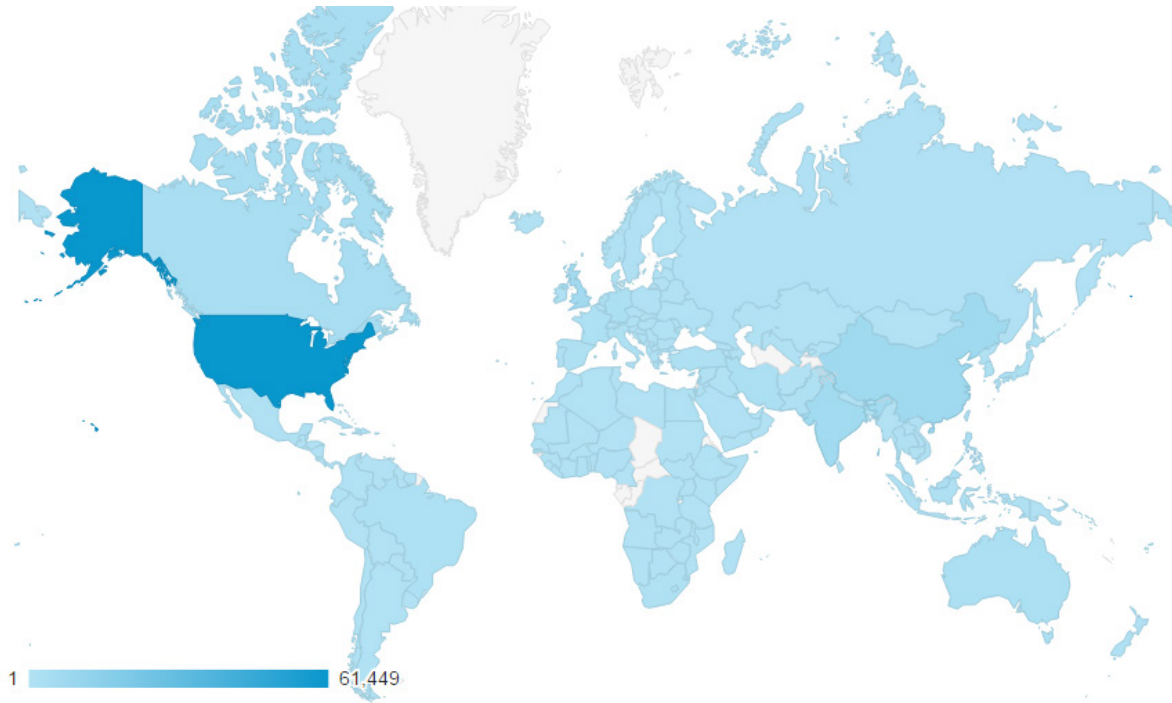
Deposits by month

| Month | Deposits |
|----------------|----------|
| July 2013 | 142 |
| August 2013 | 319 |
| September 2013 | 717 |
| October 2013 | 657 |
| November 2013 | 709 |
| December 2013 | 442 |
| January 2014 | 458 |
| February 2014 | 746 |
| March 2014 | 522 |
| April 2014 | 803 |
| May 2014 | 255 |
| June 2014 | 260 |

appendix c

VISITORS

Location of international visitors



Number of visitors (by country)

| Rank | Country | Number of Visitors |
|------|----------------|--------------------|
| | United States | 61,449 |
| 1. | China | 6,895 |
| 2. | India | 6,248 |
| 3. | United Kingdom | 5,708 |
| 4. | Canada | 3,582 |
| 5. | Germany | 2,344 |
| 6. | Australia | 2,335 |
| 7. | Iran | 2,104 |
| 8. | Philippines | 1,931 |
| 9. | Malaysia | 1,898 |
| 10. | South Korea | 1,594 |

Number of visitors (by state)

| Rank | State | Number of Visitors |
|------|---------------|--------------------|
| | Iowa | 16,967 |
| 1. | California | 5,726 |
| 2. | Michigan | 2,694 |
| 3. | Minnesota | 2,570 |
| 4. | Illinois | 2,353 |
| 5. | Texas | 2,302 |
| 6. | New York | 2,133 |
| 7. | Florida | 1,503 |
| 8. | Pennsylvania | 1,491 |
| 9. | Nebraska | 1,447 |
| 10. | Massachusetts | 1,435 |

Number of visitors (in Iowa)

| Rank | Community | Number of Visitors |
|------|-----------------|--------------------|
| | Ames | 12,715 |
| 1. | Des Moines | 1,163 |
| 2. | West Des Moines | 475 |
| 3. | Iowa City | 325 |
| 4. | Ankeny | 298 |
| 5. | Johnston | 163 |
| 6. | Cedar Rapids | 146 |
| 7. | Cedar Falls | 124 |
| 8. | Urbandale | 107 |
| 9. | Huxley | 65 |
| 10. | Fort Dodge | 55 |

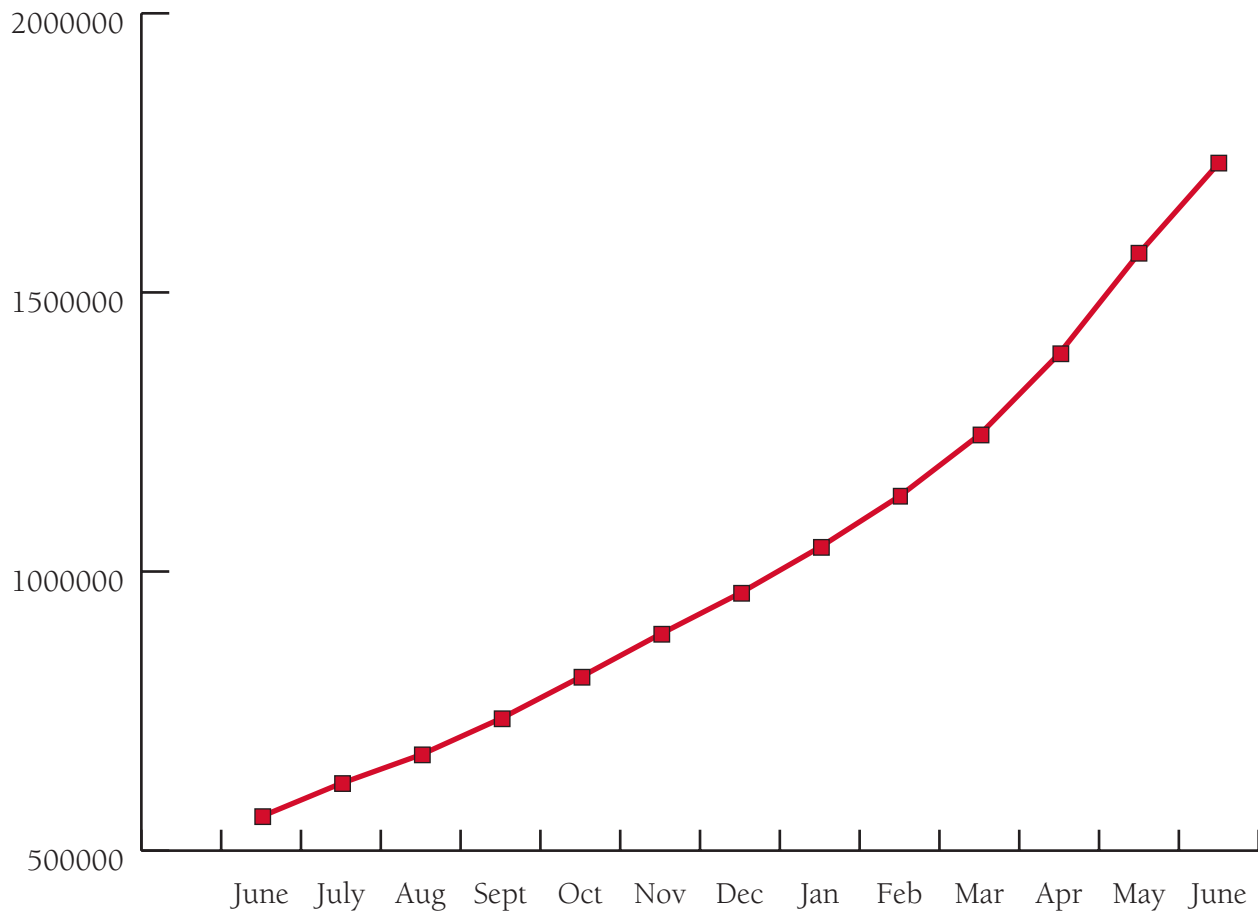
Number of visitors (academic)

| Rank | University | Number of Visitors |
|------|---------------------------------|--------------------|
| | Iowa State University | 1,724 |
| 1. | Purdue University | 198 |
| 2. | University of Illinois | 193 |
| 3. | University of Nebraska–Lincoln | 168 |
| 4. | Texas A&M University | 147 |
| 5. | Ohio State University | 141 |
| 6. | Wageningen University | 134 |
| 7. | University of Florida | 130 |
| 8. | Pennsylvania State University | 128 |
| 9. | University of Minnesota | 126 |
| 10. | Cornell University | 118 |
| | University of Wisconsin–Madison | |

appendix d

DOWNLOADS

Number of downloads (total)



Number of downloads (monthly)

| Month | Downloads |
|----------------|-----------|
| July 2013 | 59,290 |
| August 2013 | 51,368 |
| September 2013 | 64,647 |
| October 2013 | 74,426 |
| November 2013 | 77,002 |
| December 2013 | 73,362 |
| January 2014 | 82,258 |
| February 2014 | 91,629 |
| March 2014 | 109,698 |
| April 2014 | 145,456 |
| May 2014 | 180,089 |
| June 2014 | 161,469 |

Most frequently downloaded theses and dissertations

Downloads during fiscal year 2014

| Rank | Author | Title | Department | Advisor(s) | Downloads |
|------|------------------------|---|---|---------------------------------|-----------|
| 1 | Andrea M. Siefers | A novel and cost-effective hydrogen sulfide removal technology using tire derived rubber particles | Civil, Construction and Environmental Engineering | Timothy G. Ellis | 8,627 |
| 2 | Juhee Kang | Social media marketing in the hospitality industry | Apparel, Events and Hospitality Management | Ann Marie Fiore and Liang Tang | 6,991 |
| 3. | Pamela R. Dodge | Managing school behavior | Educational Leadership and Policy Studies | Scott McLeod | 6,335 |
| 4. | Sungmin Hyun | Re-examination of Herzberg's Two-Factor Theory of Motivation in the Korean Army foodservice operation | Apparel, Events and Hospitality Management | Haemoon Oh and Robert Bosselman | 6042 |
| 5. | Priyanka N. Karandikar | Chawls | Architecture | Nadia Anderson | 5,461 |
| 6. | Eunjoo Cho | Development of a brand image scale and the impact of lovemarks on brand equity | Apparel, Events and Hospitality Management | Ann Marie Fiore | 5,375 |
| 7. | David Roberto Escudero | Bed height and material density effects on fluidized bed hydrodynamics | Mechanical Engineering | Theodore J. Heindel | 5,270 |
| 8. | Charles D. Graziano | A performance analysis of Xen and KVM hypervisors for hosting the Xen Worlds Project | Electrical and Computer Engineering | Thomas E. Daniels | 5,056 |
| 9. | Li Yu | Typography in film title sequence design | Art and Design | Sunghyun Kang | 4,851 |
| 10. | Myunghwan Byun | Controlled evaporative self-assembly of confined microfluids | Materials Science and Engineering | Zhiqun Lin | 4,849 |

Most frequently downloaded faculty scholarship

Peer-reviewed articles and manuscripts during fiscal year 2014.

| Rank | Iowa State Author(s) | Title | Department(s) | Downloads |
|------|---|---|---|-----------|
| 1. | Timothy J. Anderson, Buddhi P. Lamsal | Zein extraction from corn, corn products, and coproducts and modifications for various applications | Food Science and Human Nutrition | 1,166 |
| 2. | Chao Wang, Chenxu Yu | Detection of chemical pollutants in water using gold nanoparticles as sensors | Agricultural and Biosystems Engineering | 1,006 |
| 3. | Brian E. Mennecke, Anthony M. Townsend* | Second Life and other virtual worlds | Supply Chain and Information Systems | 747 |
| 4. | Jason F. Shogren, Seung Y. Shin, Dermot Y. Hayes, James B. Kliebenstein | Resolving differences in willingness to pay and willingness to accept | Economics | 682 |
| 5. | Liping Wang, Jay-Lin Jane, Tong Wang* | Oil and tocopherol content and composition of pumpkin seed oil in 12 cultivars | Food Science and Human Nutrition | 562 |
| 6. | Brian E. Mennecke* | Geographic information systems in developing countries | Supply Chain and Information Systems | 558 |
| 7. | Wesley F. Buchele, Stephen J. Marley, William I. Baldwin | A variable approach-angle moldboard plow | Agricultural and Biosystems Engineering | 555 |
| | Kurt A. Rosentrater | Quantification of physical and chemical properties, and identification of potentially valuable components from fuel ethanol process streams | Agricultural and Biosystems Engineering | |
| 9. | Jeffrey D. Kushkowski, Kathy A. Parsons, William H. Wiese | Master's and doctoral thesis citations | Library | 448 |
| 10. | Peter J. Reilly | Surfactant properties of low molecular weight phospholipids | Chemical and Biological Engineering | 428 |

* Co-authors not affiliated with Iowa State University are not listed

appendix e

STAFF ACTIVITY

Digital repository staff

Staff and students employed with the repository during fiscal year 2014

- Harrison W. Inefuku, *Digital Repository Coordinator*
- Susan Knippel, *Systems Support Specialist*
- Lorrie Smith, *Library Assistant*
- Logan Jewett, *Student Assistant*
- Benjamin Spick, *Student Assistant*

Staff honors, publications and presentations

Honors

Logan E. Jewett, Student of Distinction (Iowa State University Office of Student Financial Aid)

Publications

- Harrison W. Inefuku, "Whatever happened to art and design?: using archival practice to manage the impact of academic restructuring on institutional repositories," *Journal of Library Administration* 53 (2013): 209–222, doi:10.1080/01930826.2013.865383, http://lib.dr.iastate.edu/digirep_pubs/1/.

Presentations

- Harrison W. Inefuku, "More than seeing what sticks: aligning repository assessment with institutional repositories," poster session at Open Repositories 2013, Charlottetown, PE, Canada, July 2013.
- Harrison W. Inefuku, "Brave new world: the intersection of institutional repositories and university archives," panel session at the Society of American Archivists Annual Meeting, New Orleans, LA, United States, August 2013.
- Harrison W. Inefuku, "Repositories as a service," lightning round session at the Society of American Archivists Annual Meeting, New Orleans, LA, United States, August 2013.
- Logan E. Jewett, "ETD Conversion Project," lightning round session at Code4Lib Midwest, Iowa City, IA, United States, October 2013.
- Harrison W. Inefuku, "An institutional repository at Pacific," presentation at the University of the Pacific Library, Stockton, CA, United States, March 2014.

Campus Outreach Presentations

- College of Design, April 14, 2014
- Presidential Enhancing Institutional Excellence Committee, February 12, 2014
- Graduate and Professional Student Senate and Graduate College Information Session, January 27, 2014
- Presidential Enhancing Institutional Excellence Committee: Citations, Publications and Related Indicators Subcommittee, January 21, 2014
- Department of Architecture Faculty Retreat, January 10, 2014
- Extension and Outreach Leadership Team, December 9, 2013
- Department of Human Development and Family Studies, December 9, 2013
- CI 615B: Research and Teaching Trends in Technology-Mediated Education, November 13, 2013
- Graduate and Professional Student Senate, October 28, 2013

Articles, blog posts and presentations referencing Digital Repository @ Iowa State University

Articles

- Jean-Gabriel Bankier, “Modeling a Shared National Cross Digital Repository,” *Proceedings of the Charleston Library Conference* (West Lafayette, IN: Purdue e-Pubs, 2013), doi:10.5703/1288284315312.
- Michelle Schoening, “GPSS presents repository,” *Iowa State Daily* (October 28, 2013): 2.

Blog Posts

- Eleni A. Upah, “ABE pioneers major growth for Iowa State’s digital repository,” *Iowa State University College of Engineering News* (November 13, 2013): <http://news.engineering.iastate.edu/2013/11/13/abe-pioneers-major-growth-for-iowa-states-digital-repository/>.
- “Admins leverage Digital Commons Network to provide more visibility for departments,” *DC Telegraph* (August 29, 2013): <http://blog.digitalcommons.bepress.com/2013/08/29/admins-leverage-digital-commons-network-to-provide-more-visibility-for-departments/>.

Presentations and Webinars

- Jean-Gabriel Bankier, “Modeling a shared national cross digital repository,” presentation at Charleston Conference 2013, Charleston, SC, United States, November 2013.
- Dave Seitz, “ETD workflows: a bird’s eye view,” webinar, October 2013.
- Mark Roquet, “Unexpected sources of repository readership,” webinar, July 2013.